

***Remarks***

Reconsideration of this Application is respectfully requested.

Upon entry of the foregoing amendment, claims 4, 5, 8, 9, 11-14, 16, and 19-33 are pending in the application, with 8, 9, 11, 19, and 31-33 being the independent claims. Claims 1-3, 6-7, 10, 13, 15, and 17-18 are sought to be cancelled without prejudice to or disclaimer of the subject matter therein. New claims 19-33 are sought to be added. These changes are believed to introduce no new matter, and their entry is respectfully requested.

Based on the above amendment and the following remarks, Applicant respectfully requests that the Examiner reconsider all outstanding objections and rejections and that they be withdrawn.

**Objection to the Specification**

On page 2 of the Office Action, the Examiner has objected to the specification because of the repetition of the phrase "a power control circuit" twice on page 3 (paragraph 9, line 2). The necessary correction has been made as an amendment to the specification. Accordingly, Applicants request that this objection to the specification be withdrawn, in light of the current amendment to the specification.

**Objections to the Drawings**

The drawings are objected to under 37 CFR 1.83(a) for not showing every feature of the invention specified in the claims.

The claims in question are 9 and 13.

The objected feature of Claim 9, viz. the "digital-to-analog converter", has now been eliminated to incorporate every feature of the invention as intended by the drawings.

Claim 13 has been canceled.

Accordingly, Applicants request that this objection to the drawings be reconsidered in light of the amended claim 9 and the canceled claim 13.

**Rejections Under 35 U.S.C. § 102**

Claims 1, 3-4 and 6-7 are rejected under 35 U.S.C. § 102(b) as allegedly being anticipated by U.S. Patent Number 6,535,065 to Aoki. Claims 1, 3, 6 and 7 have been canceled rendering the rejection against them moot.

Claim 4, as amended, depends directly from claim 9 and is therefore allowable for at least the same reasons as claim 9, the arguments in favor of which are presented in the next section.

**Rejections Under 35 U.S.C. § 103**

Claim 9 has been rejected under 35 U.S.C. § 103(a) as being allegedly obvious over Aoki in view of U.S. Patent Number 6,759,906 to Matsunaga *et al.* (hereinafter "Matsunaga"). Applicants respectfully traverse.

Claim 9, as amended, recites a "first input being adapted to receive a high frequency signal in the Gigahertz range" and a "second input being adapted to receive a low frequency signal in the Megahertz range, wherein the low frequency input signal consumes no additional current". Neither Aoki or Matsunaga, either alone or in any rational combination, teach this feature of claim 9, as amended. Nor would anyone skilled in the art, relying only on the disclosures of the references, combine Aoki or

Matsunaga to teach this feature of claim 9. Therefore, Aoki and Matsunaga do not meet the criteria for prima facie obviousness. Accordingly, Applicants respectfully request that this rejection against claim 9 be withdrawn and claim 9 be passed to allowance.

Claim 8 has been rejected under 35 U.S.C. § 103(a) as being allegedly obvious over Aoki. Applicants respectfully traverse.

Claim 8, as amended, recites an "...antenna having an input comprising a signal proportional to a product involving at least two of a linear ramp, a step ramp and an exponential ramp signal, the step ramp signal including at least three steps." , which is not taught anywhere in Aoki. Therefore, Aoki does not teach each and every feature of this claim. Accordingly, Aoki does not meet the criteria for prima facie obviousness. Accordingly, Applicants respectfully request that this rejection against claim 8 be withdrawn and claim 8 be passed to allowance.

Claim 11 has been rejected under 35 U.S.C. § 103(a) as being allegedly obvious over Aoki in view of U.S. Patent Number 6,639,471 to Matsuura *et al.* (hereinafter "Matsuura"). Applicants respectfully traverse this rejection.

Claim 11, as amended, recites a method which, besides other features, generates an optimized linear transfer function curve by "...subdividing the time and amplitude into more than one steps wherein each step is limited by at least two unequal time constants to avoid sharp transitions...". Neither Aoki or Matsuura, either alone or in any rational combination, teach this feature of claim 11, as amended. Nor would anyone skilled in the art, relying only on the disclosures of the references, combine Aoki or Matsuura to teach this feature of claim 11. Therefore, Aoki and Matsuura do not meet the

criteria for prima facie obviousness. Accordingly, Applicants respectfully request that this rejection against claim 11 be withdrawn and claim 11 be passed to allowance.

Claims 2 and 10 are rejected under 35 U.S.C. § 103(a) as being allegedly obvious over Aoki in view Matsunaga. Claims 2 and 10 have been canceled rendering this rejection against them moot.

Claim 5 has been rejected under 35 U.S.C. § 103(a) as being allegedly obvious over Aoki. Applicants respectfully traverse.

Claim 5 depends directly from claim 8, and is therefore allowable for at least the same reasons as claim 8. Accordingly, Applicants request that this rejection be withdrawn and claim 5 be passed to allowance.

Claims 14 and 16 are rejected under 35 U.S.C. § 103(a) as being allegedly unpatentable over Matsuura in view of Aoki.

Claims 14 and 16 depend directly from claim 11, and are therefore allowable for at least the same reasons as claim 11. Accordingly, Applicants request that this rejection be withdrawn and these claims be passed to allowance.

Claims 12 and 13 are rejected under 35 U.S.C. § 103(a) as being allegedly unpatentable over Matsuura in view Aoki and further in view of Matsunaga.

Claims 12 and 13 depend directly or indirectly from claim 11, and are therefore allowable for at least the same reasons as claim 11. Accordingly, Applicants request that this rejection be withdrawn and these claims be passed to allowance.

**Allowable Subject Matter**

On page 9 of the Office action, the examiner has mentioned that claims 15, 17 and 18 would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 15 has been canceled and rewritten as claim 31 in independent form including all of the limitations of the original base claim. Accordingly, Applicants request that this claim 31 be allowed.

Claim 17 has been canceled and rewritten as claim 32 in independent form including all of the limitations of the original base claim. Accordingly, Applicants request that this claim 32 be allowed.

Claim 18 has been canceled and rewritten as claim 33 in independent form including all of the limitations of the original base claim. Accordingly, Applicants request that this claim 33 be allowed.


***Conclusion***

All of the stated grounds of objection and rejection have been properly traversed, accommodated, or rendered moot. Applicant therefore respectfully requests that the Examiner reconsider all presently outstanding objections and rejections and that they be withdrawn. Applicant believes that a full and complete reply has been made to the outstanding Office Action and, as such, the present application is in condition for allowance. If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at the number provided.

Prompt and favorable consideration of this Amendment and Reply is respectfully requested.

Respectfully submitted,

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